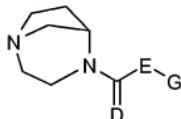


Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

WHAT IS CLAIMED IS:

- 1.(currently amended) A compound according to Formula I:



wherein:

D is selected from oxygen, sulfur or N(R¹)₂;

E is selected from -C(R¹)₂-C(R¹)₂-, -CR¹=CR¹-, -C≡C- or -C(R¹)₂-O-;

G is selected from a 5- or 6-membered aromatic or heteroaromatic ring having 0, 1 or 2 nitrogen atoms, 0 or 1 oxygen atoms, and 0 or 1 sulfur atoms, or selected from an 8-, 9- or 10-membered fused aromatic or heteroaromatic ring system having 0, 1, 2 or 3 nitrogen atoms, 0 or 1 oxygen atoms, and 0 or 1 sulfur atoms;

where G is unsubstituted or has 1, 2 or 3 substituents selected from -C₁-C₆alkyl, -C₂-C₆alkenyl, -C₂-C₆alkynyl, halogen, -CN, -NO₂, -CF₃, -S(O)_nR³, -NR²R³, -CH₂NR²R³, -OR³, -CH₂OR³ or -CO₂R⁴;

R¹, R² and R³ are independently selected at each occurrence from hydrogen, halogen, -C₁-C₄alkyl, aryl, heteroaryl, -C(O)R⁴, -C(O)NHR⁴, -CO₂R⁴ or -SO₂R⁴, or

R² and R³ in combination is -(CH₂)_jG(CH₂)_k- wherein G is oxygen, sulfur, NR⁴, or a bond;

j is 2, 3 or 4;

k is 0, 1 or 2;

n is 0, 1 or 2, and

R^4 is independently selected at each occurrence from hydrogen, -C₁-C₆alkyl, aryl, or heteroaryl,

or stereoisomers, enantiomers, *in vivo hydrolysable precursors* or a pharmaceutically-acceptable salt thereof.

2. (Currently amended) A compound, stereoisomer, enantiomer, pharmaceutically-acceptable salt thereof according to Claim 1, wherein:

D is oxygen;

E is selected from -C(R¹)₂-C(R¹)₂-, -CR¹=CR¹-, -C≡C- or -C(R¹)₂-O-;

G is phenyl;

where G is unsubstituted or has 1, 2 or 3 substituents selected from -C₁-C₆alkyl and

R¹ is independently selected at each occurrence from hydrogen or halogen.

3.(currently amended) A compound, stereoisomer, enantiomer, pharmaceutically-acceptable salt thereof according to Claim 1, wherein:

D is oxygen;

E is selected from -C(R¹)₂-C(R¹)₂-, -CR¹=CR¹-, -C≡C- or -C(R¹)₂-O-;

G is phenyl;

where G is unsubstituted or has methyl substituent and

R¹ is independently selected at each occurrence from hydrogen or fluoro.

4.(Currently amended) A compound according to Claim 1, selected from:

1-(1,4-diazabicyclo[3.2.1]oct-4-yl)-3-phenyl-propynone;

(Z)-1-(1,4-diazabicyclo[3.2.1]oct-4-yl)-2-fluoro-3-phenyl-propenone;

(E)-1-(1,4-diazabicyclo[3.2.1]oct-4-yl)-3-o-tolyl-propenone, or

1-(1,4-diazabicyclo[3.2.1]oct-4-yl)-2-phenoxy-ethanone, or a

stereoisomers, enantiomers, *in vivo hydrolysable precursors* or a pharmaceutically-acceptable salt thereof.

5.(withdrawn) A method of treatment or prophylaxis of a disease or condition in which activation of the $\alpha 7$ nicotinic receptor is beneficial which method comprises administering a therapeutically-effective amount of a compound according to Claim 1 to a subject suffering from said disease or condition.

6.(withdrawn) The method of Claim 5, wherein said disease or condition is anxiety, schizophrenia, mania or manic depression.

7.(withdrawn) A method of treatment or prophylaxis of neurological disorders, psychotic disorders or intellectual impairment disorders, which comprises administering a therapeutically effective amount of a compound according to Claim 1.

8.(withdrawn) The method of Claim 7, wherein said disorder is Alzheimer's disease, learning deficit, cognition deficit, attention deficit, memory loss, Attention Deficit Hyperactivity Disorder, Parkinson's disease, Huntington's disease, Tourette's syndrome, neurodegenerative disorders in which there is loss of cholinergic synapses, jetlag, nicotine addiction, craving, pain, or ulcerative colitis.

9.(withdrawn) A method for inducing the cessation of smoking comprising administering an effective amount of a compound according to Claim 1.

10.(Original) A pharmaceutical composition comprising a compound according to Claim 1 and a pharmaceutically-acceptable diluent, lubricant or carrier.

11.(withdrawn) A method of treatment or prophylaxis of a disease or condition in which activation of the $\alpha 7$ nicotinic receptor is beneficial which method comprises administering a therapeutically-effective amount of a pharmaceutical composition according to Claim 10 to a subject suffering from said disease or condition.

12.(withdrawn) The method of Claim 11, wherein said disease or condition is anxiety, schizophrenia, mania or manic depression.

13.(withdrawn) A method of treatment or prophylaxis of neurological disorders, psychotic disorders or intellectual impairment disorders, which comprises administering a therapeutically effective amount of a pharmaceutical composition according to Claim 10.

14.(withdrawn) The method of Claim 13, wherein said disorder is Alzheimer's disease, learning deficit, cognition deficit, attention deficit, memory loss, Attention Deficit Hyperactivity Disorder, Parkinson's disease, Huntington's disease, Tourette's syndrome, neurodegenerative disorders in which there is loss of cholinergic synapses, jetlag, nicotine addiction, craving, pain, or ulcerative colitis.

15.(withdrawn) A method for inducing the cessation of smoking comprising administering an effective amount of a pharmaceutical composition according to Claim 10.

16.(withdrawn) The use of a compound according to Claim 1, an enantiomer thereof or a pharmaceutically-acceptable salt thereof, in the manufacture of a medicament for the treatment or prophylaxis of human diseases or conditions in which activation of the α 7 nicotinic receptor is beneficial selected from neurological disorders, psychotic disorders, intellectual impairment disorders, Alzheimer's disease, learning deficit, cognition deficit, attention deficit, memory loss, Attention Deficit Hyperactivity Disorder, anxiety, schizophrenia, mania or manic depression, Parkinson's disease, Huntington's disease, Tourette's syndrome, or neurodegenerative disorders in which there is loss of cholinergic synapses.

17.(withdrawn) The use of a compound according to Claim 1, in the manufacture of a medicament for the treatment or prophylaxis of jetlag, pain, or ulcerative colitis or to

facilitate the cessation of smoking or the treatment of nicotine addiction or craving including that resulting from exposure to products containing nicotine.